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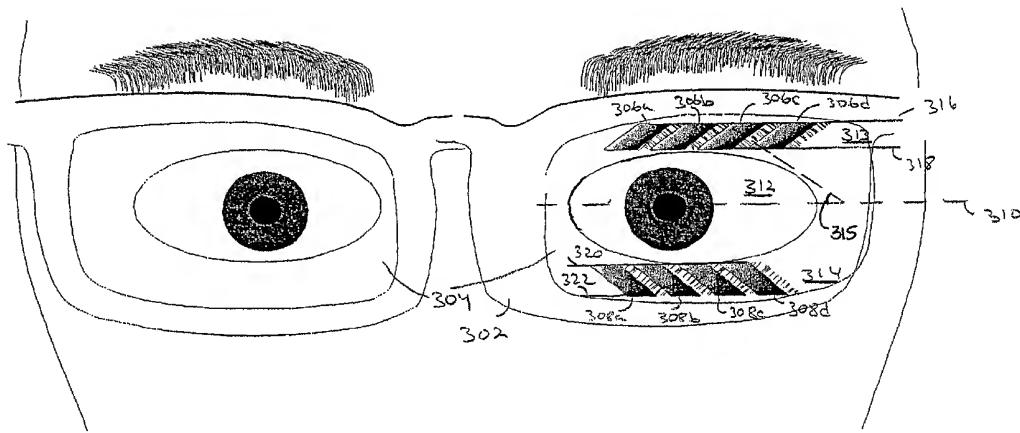
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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,

[Continued on next page]

(54) Title: PERIPHERAL FIELD EXPANSION DEVICE



WO 2005/059630 A3

(57) Abstract: A spectacle system is disclosed for shifting the field expansion property of peripheral prisms from the upper and lower peripheral visual fields toward the central visual field of a person with peripheral field loss, and particularly hemianopia, while maintaining the lateral field expansion. In terms of perceived image, the spectacle system includes image-shifting devices that shift the perceived images from the central missing visual fields toward the upper and lower peripheral visual fields. The image-shifting devices are placed out of the central visual field and do not interfere with the normal central or foveal vision of the wearer. The spectacle system can be fitted onto one or both carrier lenses of a pair of spectacles and includes at least one image-shifting device. The image-shifting device includes a plurality of image-shifting elements. In one embodiment, the image-shifting device includes a plurality of image-shifting mirror elements that are arranged to form a Fresnel-like mirrors based prism. In another embodiment, the image-shifting elements can include either a plurality of image shifting mirrors or a plurality of image-shifting prisms that are oriented such that the optical axis of each image-shifting element forms an acute angle with the horizontal visual meridian of the person wearing the spectacles.



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